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Absorbable biocompatible block copolymer

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New biocompatible block copolymers (I) contain at least two different block components, obtained by polycondensing a first diol (II) with a second diol (II), an alpha , omega -dihydroxy-polyester (III) or an alpha , omega -dihydroxy-polyether (IV) in presence of diisocyanate, diacid halide or phosgene, where (II) are obtained by transesterification of alpha , omega -dihydroxy-(oligo-(3-(R)-hydroxybutyrate)-ethylene-oligo-3-(R)-hydrox ybutyrate) with diglycolide or eta -caprolactone. (II) are also new. - New biocompatible block copolymers (I) contain at least two chemically different block components, obtained by linear polycondensation of a first diol (II) with a second (same or different) diol (II), an alpha , omega -dihydroxy-polyester (III) or an alpha , omega -dihydroxy-polyether (IV) in presence of diisocyanate, diacid halide or phosgene. (II) are obtained by transesterification of alpha , omega -dihydroxy-(oligo-(3-(R)-hydroxy butyrate)-ethylene-oligo-3-(R)-hydroxybutyrate) with diglycolide or eta -caprolactone. (III) are obtained by transesterification of poly-(R)-hydroxyvaleric acids (or their copolymers with 3-hydroxyvaleric acid) with ethylene glycol. (IV) are selected from alpha , omega -dihydroxy-poly-(oxytetramethylenes), alpha , omega -dihydroxy-poly-(oxytetraethylenes) and their copolymers with ethylene glycol or propylene glycol. Independent claims are included for: - (a) the biocompatible diol intermediates (II) as new compounds; and - (b) the preparation of (II), as described above.

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